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## PATENT COOPERATION TREATY

## **PCT**

INTERNATIONAL PRELIMINARY EXAMINATION REPORT
HEC'S PCT/PTO 23 JUN 2013

Applicant's or agent's file reference 401th/229107	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
International application No.	International filing date (day/month/ye	ear) Priority date (day/month/year)				
PCT/EP2003/006320	16 June 2003 (16.06.2003)	(				
International Patent Classification (IPC) or n B23B 31/00	lational classification and IPC					
Applicant HARTMET	ALL-WERKZEUG FABRIK PA	UL HORN GmBH				
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>						
2. This REPORT consists of a total of	f 5 sheets, including this	cover sheet.				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total of sheets.						
3. This report contains indications relating to the following items:						
I . Basis of the report						
TI Priority	The Projection					
Non-actablishment of opinion with regard to povelty inventive step and industrial applicability						
	I sale of unity of invention					
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain document	VI Certain documents cited					
VII Certain defects in	Cortain defeats in the international application					
VIII Certain observations on the international application						
Date of submission of the demand	Date of con	pletion of this report				
04 September 2003 (04	4.09.2003)	03 August 2004 (03.08.2004)				
Name and mailing address of the IPEA/E	EP Authorized	officer				
Facsimile No.	Telephone	Telephone No.				

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International application No.

PCT/EP2003/006320

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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This report this report of 70.17).	the description, pages the claims, Nos the drawings, sheets/fig eport has been established as if (som d the disclosure as filed, as indicated at sheets which have been furnished to that as "originally filed" and are n	ne of) the amen in the Supplem to the receiving not annexed to	ental Box (Rule 70.2(c)).**  Office in response to an investis report since they do	vitation under Article 14 are referred to not contain amendments (Rule 70.16
	egard to the the intermediate descripages — pages — pa	regard to the elements of the international application as originally filed the description:  pages	the international application as originally filed the description:  pages 6-13  pages 6-13  pages 1-5, 5a  the claims:  pages 1-5, 5a  the drawings:  pages 1-7  the drawings:  pages 1-7  the drawings:  pages 1-7  the sequence listing part of the description:  pages pages pages  pages pages  pages pages 1/2-2/2  pages pages 1/2-3/2  pages pages 1/3  the sequence listing part of the description:  pages pages pages 1/3  the language, all the elements marked above were international application was filed, unless otherwise indicated se elements were available or furnished to this Authority in the the language of a translation furnished for the purposes of i the language of publication of the international application the language of the translation furnished for the purposes or 55.3).  the regard to any nucleotide and/or amino acid sequentiminary examination was carried out on the basis of the sequence ontained in the international application in compute furnished subsequently to this Authority in written form. filled together with the international application in compute furnished subsequently to this Authority in computer reads the statement that the subsequently furnished writter international application as filed has been furnished.  The statement that the information recorded in compute been furnished.  The amendments have resulted in the cancellation of:  the description, pages the claims, Nos.  the drawings, sheets/fig  This report has been established as if (some of) the amen beyond the disclosure as filed, as indicated in the Supplement of the Capture of the Supplement of Sup	egard to the elements of the international application:* the international application as originally filed the description: pages

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/EP 03/06320

NO

YES

NO

-7 YES	
NO	
-7 YES	
	NO

2. Citations and explanations

Industrial applicability (IA)

Reference is made to the following document:

Claims

Claims

Claims

D1: FR-A-1 497 546 (BALEA GEORGES) 13 October 1967 (1967-10-13)

1-7

D1 is considered to be the prior art closest to the subject matter of claim 1. Said document discloses (the references in parentheses relate to D1):

D1 (fig. 1 to 3) shows a cutting machine tool having a holder (3), the one end of which has a fixing shank (1) and the other end of which has a seat for an interchangeable cutting body (19, 23, 24) having a carrier portion (19) which, in the fixed state, engages at least partly in the seat, and having a machining portion (24), wherein the carrier portion is clampingly fixable in the seat by means of a fixing portion (11) and wherein the seat has a support area, and in addition to the support area has a feed area (3a), and wherein said two areas are movable towards or away from each other for the purpose of fixing or interchanging the cutting body by means of the fixing portion (page 2, second paragraph), wherein the seat is slotted (7, 8) towards the fixing shank to form the support area and the feed area, and wherein a resilient relative movement of the two areas is

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facilitated by the respective slot which, on the one side thereof, opens to the outside.

The subject matter of claim 1 therefore differs from the known tool in that the support area has mutually converging support faces which can be brought to bear against correspondingly converging bearing faces on the carrier portion, in that the feed face of the feed area extends perpendicular to the support faces of the support area and thus acts on a further bearing face on the carrier portion, and in that the fixing portion has a fixing sleeve with an internal thread which can be screwed onto an external thread of the holder, into which external thread each of the seat slots opens.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The problem addressed by the present invention can therefore be considered that of achieving high-precision machining. A further aim is to provide a low-cost and reliable holding means for the cutting body, combined with rapid interchangeability.

The solution to this problem as proposed in claim 1 of the present application involves an inventive step (PCT Article 33(3)) for the following reasons:

The combination of features in claim 1 is neither known from nor suggested by the available prior art.

Claims 2 to 7 are dependent on claim 1 and therefore likewise satisfy the PCT novelty and inventive step requirements.